# Multiplication and Division Multi-step Problems
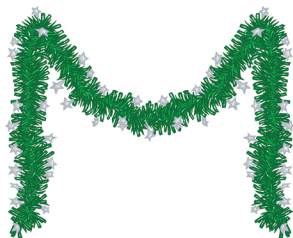
## Challenge Cards

1. A box of Christmas crackers contains 15 packs. Each pack contains 24 crackers. A shop buys six boxes. How many crackers will there be in the six boxes?

2. Sets of eight pieces of tinsel are sold at a Christmas Fair for £1.72 per set. The decorations are bought in boxes which contain 24 sets and cost £17.28. How much does each decoration cost on average for the stallholder to buy and for how much is each sold for?
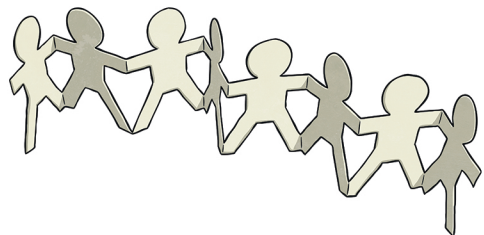
3. Santa Claus has a team of elves. Each elf makes 17 presents each day and works five days a week. 25 925 presents are made each week. How many elves are there making presents?

4. Packets of paper chains contain 240 pieces of chain. Packets are boxed in 12 rows of nine packets. How many pieces of paper chain are in each box?

5. At a Christmas party, there are six boxes of Christmas chocolates. Each box contains 12 packets, with each packet containing nine Christmas chocolates. The chocolates are divided equally among 54 people. How many chocolates does each person receive?

6. Grace wants to buy seven of her friends a Christmas gift. She intends to buy each friend the same gift. She has £38.75 to spend. She has to choose between a mirror for £5.50 and a notepad and pen set for £5.60. Explain what Grace will do.
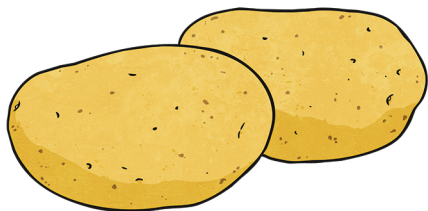
7. A catalogue company make small puzzles which schools can buy as gifts for their children. One school buys 32 toys for each of the seven classes. The toys cost 82p each. How much money will the school spend on the gifts?
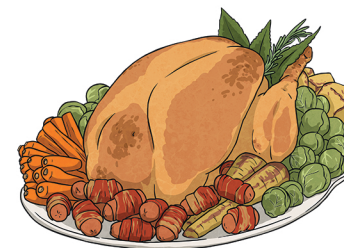
8. A market stallholder buys 270kg potatoes to sell at Christmas. He divides the potatoes into 750g bags, which he sells for 28p each. He sells all the bags. How much money will collect by selling all the potatoes?

9. A Christmas meal for elderly people is organised by a community centre. 90 people are catered for. Explain how the tables could be organised so each table has the same number of people. No table can have more than 20 people or less than four people.

10. A greetings card company makes Christmas cards. The cards are sold in packs of 18. At the end of production, there are 729 cards left. How many complete packs can be made from these cards?

1. 2160 crackers
2. 9p and 22p (rounded from 21.5p)
3. 305 elves
4. 25 920 pieces of paper chain
5. 12 chocolates each
6. Seven mirrors will cost £38.50. Seven notepad and pen sets will cost £39.20. She cannot afford the notepad and pen sets so she will buy the mirrors.
7. £183.68
8. £100.80
9. 18 tables of five people, 15 tables of six people, 10 tables of nine people, nine tables of 10 people, six tables of 15 people, five tables of 18 people
10. 40 complete packs